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PREPARATION OF COMPONENTS FOR REFINERY BLENDING OF TRANSPORTATION FUELS

ABSTRACT OF THE INVENTION

Economical processes are disclosed for the production of for refinery blending of transportation fuels components selective oxidation of feedstocks comprising a mixture of hydrocarbons, sulfur-containing and nitrogen-containing organic Oxidation feedstock is contacted with an immiscible compounds. phase comprising at least one organic peracid or precursors of organic peracid in a liquid phase reaction mixture maintained substantially free of catalytic active metals and/or active metalcontaining compounds and under conditions suitable for oxidation of one or more of the sulfur-containing and/or nitrogen-containing organic compounds. Blending components containing less sulfur and/or less nitrogen than the oxidation feedstock are recovered from the reaction mixture. Advantageously, at least a portion of the immiscible acid-containing phase is recycled to the oxidation.